

Operation Manual

Mode d'emploi

High power CD player with FM/AM tuner

Lecteur CD de grande puissance avec syntoniseur
FM/AM

DEH-1500

DEH-15

English

Français

Español

SUPER  **TUNER III** 

Thank you for buying this Pioneer product.

Please read through these operating instructions so you will know how to operate your model properly. *After you have finished reading the instructions, put them away in a safe place for future reference.*

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Dear Customer:

Selecting fine audio equipment such as the unit you've just purchased is only the start of your musical enjoyment. Now it's time to consider how you can maximize the fun and excitement your equipment offers. This manufacturer and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion—and, most importantly, without affecting your sensitive hearing.

Sound can be deceiving. Over time your hearing "comfort level" adapts to higher volumes of sound. So what sounds "normal" can actually be loud and harmful to your hearing. Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.

To establish a safe level:

- Start your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

Once you have established a comfortable sound level:

- Set the dial and leave it there.

Taking a minute to do this now will help to prevent hearing damage or loss in the future. After all, we want you listening for a lifetime.

We Want You Listening For A Lifetime

Used wisely, your new sound equipment will provide a lifetime of fun and enjoyment. Since hearing damage from loud noise is often undetectable until it is too late, this manufacturer and the Electronic Industries Association's Consumer Electronics Group recommend you avoid prolonged exposure to excessive noise. This list of sound levels is included for your protection.

Decibel

Level Example

30	Quiet library, soft whispers
40	Living room, refrigerator, bedroom away from traffic
50	Light traffic, normal conversation, quiet office
60	Air conditioner at 20 feet, sewing machine
70	Vacuum cleaner, hair dryer, noisy restaurant
80	Average city traffic, garbage disposals, alarm clock at two feet.

THE FOLLOWING NOISES CAN BE DANGEROUS UNDER CONSTANT EXPOSURE

90	Subway, motorcycle, truck traffic, lawn mower
100	Garbage truck, chain saw, pneumatic drill
120	Rock band concert in front of speakers, thunderclap
140	Gunshot blast, jet plane
180	Rocket launching pad

Information courtesy of the Deafness Research Foundation.



Before You Start

Information to User

Alteration or modifications carried out without appropriate authorization may invalidate the user's right to operate the equipment.



For Canadian model

This Class B digital apparatus complies with Canadian ICES-003.




About this unit

The tuner frequencies on this unit are allocated for use in North America. Use in other areas may result in improper reception.




Important (Serial number)

The serial number is located on the top of this unit. For your own security and convenience, be sure to record this number on the enclosed warranty card. 

About this manual

This unit features a number of sophisticated functions ensuring superior reception and operation. All the functions have been designed for the easiest possible use, but many are not self-explanatory. This operation manual will help you benefit fully from this product's potential and to maximize your listening enjoyment.

We recommend that you familiarize yourself with the functions and their operation by reading through the manual before you begin

using this unit. It is especially important that you read and observe precautions on the next page and in other sections. 

After-sales service for Pioneer products

Please contact the dealer or distributor from where you purchased this unit for after-sales service (including warranty conditions) or any other information. In case the necessary information is not available, please contact the companies listed below:


Please do not ship your unit to the companies at the addresses listed below for repair without advance contact.

U.S.A.

Pioneer Electronics (USA) Inc.
CUSTOMER SUPPORT DIVISION
P.O. Box 1760
Long Beach, CA 90801-1760
800-421-1404

CANADA

Pioneer Electronics of Canada, Inc.
CUSTOMER SATISFACTION DEPARTMENT
300 Allstate Parkway
Markham, Ontario L3R 0P2
(905) 479-4411
1-877-283-5901


For warranty information please see the Limited Warranty sheet included with this unit. 

Before You Start

Product registration

Visit us at the following site:


<http://www.pioneerelectronics.com>

- 1 Register your product. We will keep the details of your purchase on file to help you refer to this information in the event of an insurance claim such as loss or theft.
- 2 Receive updates on the latest products and technologies.
- 3 Download owner's manuals, order product catalogues, research new products, and much more. 

Precautions

CAUTION:
USE OF CONTROL OR ADJUSTMENT OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

CAUTION:
THE USE OF OPTICAL INSTRUMENTS WITH THIS PRODUCT WILL INCREASE EYE HAZARD.

- Keep this manual handy as a reference for operating procedures and precautions.
- Always keep the volume low enough so you can hear sounds outside of the car.
- Protect this product from moisture.
- If the battery is disconnected or discharged, the preset memory will be erased and must be reprogrammed. 

Protecting your unit from theft

The front panel can be detached from the head unit to discourage theft.



Important

- Never use force or grip the display and the buttons tightly when removing or attaching.
- Avoid subjecting the front panel to excessive shocks.
- Keep the front panel out of direct sunlight and high temperatures.

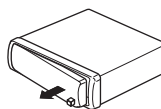
Removing the front panel

1 Press DETACH to release the front panel.

Press **DETACH** and the right side of the panel is released from the head unit.

2 Grab the front panel and remove.

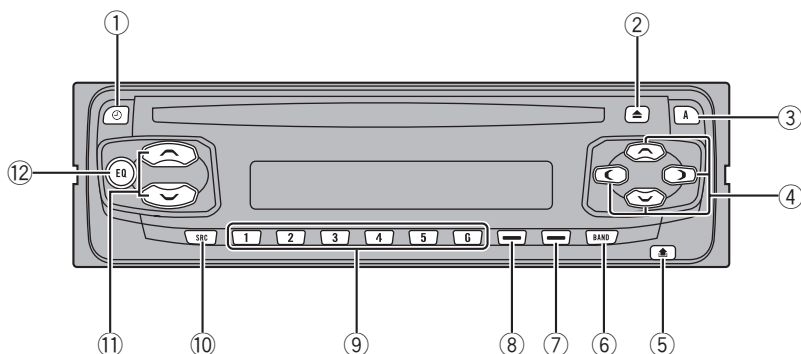
Grab the right side of the front panel and pull away to the left. The front panel will be detached from the head unit.



Attaching the front panel

1 Place the front panel flat against the head unit.

2 Press the front panel into the face of the head unit until it is firmly seated.



Head unit

① CLOCK button

Press to change to the clock display.

② CD EJECT button

You can eject a CD by pressing **CD EJECT**.

③ AUDIO button

Press to select various sound quality controls.

④ ▲/▼/◀/▶ buttons

Press to do manual seek tuning, fast forward, reverse and track search controls. Also used for controlling functions.

⑤ DETACH button

Press **DETACH** to release the front panel.

⑥ BAND button

Press to select among three FM and one AM bands and cancel the control mode of functions.

⑦ LOUDNESS button

Press to turn loudness on or off.

⑧ LOCAL/BSM button

Press to turn local function on or off. Press and hold to turn BSM function on or off.

⑨ 1-6 buttons

Press for preset tuning.

⑩ SOURCE button

This unit is turned on by selecting a source. Press to cycle through all of the available sources.

⑪ VOLUME

Press to increase or decrease the volume.

⑫ EQ button

Press to select various equalizer curves. 

Power ON/OFF

Turning the unit on

- Press **SOURCE** to turn the unit on.

When you select a source the unit is turned on. 

Selecting a source

You can select a source you want to listen to. To switch to the built-in CD player, load a disc in this unit (refer to page 10).


- When using the head unit, press **SOURCE** to select a source.

Press **SOURCE** repeatedly to switch between the following sources:


Built-in CD player—Tuner



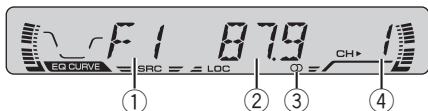
Notes

- When no disc has been set in the unit, the source will not switch to the built-in CD player.
- When this unit's blue/white lead is connected to the car's auto-antenna relay control terminal, the car's antenna extends when this unit's source is turned on. To retract the antenna, turn the source off. 

Turning the unit off

- Press **SOURCE** and hold until the unit turns off. 

Listening to the radio



- ① **Band indicator**
Shows which band the radio is tuned to, AM or FM.
- ② **Frequency indicator**
Shows to which frequency the tuner is tuned.
- ③ **Stereo (CH) indicator**
Shows that the frequency selected is being broadcast in stereo.
- ④ **Preset number indicator**
Shows what preset has been selected.

1 Press SOURCE to select the tuner.

2 Use VOLUME to adjust the sound level.
Rotate to increase or decrease the volume.

3 Press BAND to select a band.
Press **BAND** until the desired band is displayed, **F1**, **F2**, **F3** for FM or **AM**.


4 To perform manual tuning, press ◀ or ▶ with quick presses.
The frequencies move up or down step by step.

5 To perform seek tuning, press and hold ◀ or ▶ for about one second and release.
The tuner will scan the frequencies until a broadcast strong enough for good reception is found.

- You can cancel seek tuning by pressing either ◀ or ▶ with a quick press.

- If you press and hold ◀ or ▶ you can skip broadcasting stations. Seek tuning starts as soon as you release the buttons.

Note

When the frequency selected is being broadcast in stereo the stereo (CH) indicator will light. 

Storing and recalling broadcast frequencies


If you press any of the preset tuning buttons **1–6** you can easily store up to six broadcast frequencies for later recall with the touch of a button.

- **When you find a frequency that you want to store in memory press a preset tuning button 1–6 and hold until the preset number stops flashing.**

The number you have pressed will flash in the preset number indicator and then remain lit. The selected radio station frequency has been stored in memory.

The next time you press the same preset tuning button **1–6** the radio station frequency is recalled from memory.

Notes

- Up to 18 FM stations, 6 for each of the three FM bands, and 6 AM stations can be stored in memory.
- You can also use ▲ and ▼ to recall radio station frequencies assigned to preset tuning buttons **1–6**. 

Tuning in strong signals

Local seek tuning lets you tune in only those radio stations with sufficiently strong signals for good reception.

1 Press LOCAL/BSM to turn local seek tuning on.

LOC appears in the display.

2 When you want to return to normal seek tuning, press LOCAL/BSM to turn local seek tuning off.

Storing the strongest broadcast frequencies

BSM (best stations memory) lets you automatically store the six strongest broadcast frequencies under preset tuning buttons **1–6** and once stored there you can tune in to those frequencies with the touch of a button.


● Press LOCAL/BSM and hold until the BSM turns on.

BSM begins to flash. While **BSM** is flashing the six strongest broadcast frequencies will be stored under preset tuning buttons **1–6** in order of their signal strength. When finished, **BSM** stops flashing.

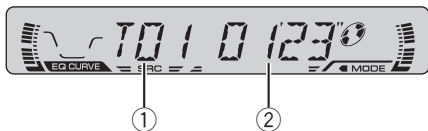
- To cancel the storage process, press **LOCAL/BSM**.



Note

Storing broadcast frequencies with BSM may replace broadcast frequencies you have saved using **1–6**. 

Playing a CD



① Track number indicator

Shows the track currently playing.

② Play time indicator

Shows the elapsed playing time of the current track.

1 Insert a CD into the CD loading slot.

Playback will automatically start.



CD loading slot

- You can eject a CD by pressing **CD EJECT**.

2 After a CD has been inserted, press **SOURCE** to select the built-in CD player.

3 Use **VOLUME** to adjust the sound level.

When you press **VOLUME** up/+, the volume is raised and when pressed down/–, the volume is lowered.

4 To perform fast forward or reverse, press and hold ◀ or ▶.

5 To skip back or forward to another track, press ◀ or ▶.

Pressing ▶ skips to the start of the next track. Pressing ◀ once skips to the start of the current track. Pressing again will skip to the previous track.

Notes

- The built-in CD player plays one, standard, 12-cm or 8-cm (single) CD at a time. Do not use an adapter when playing 8-cm CDs.
- Do not insert anything other than a CD into the CD loading slot.
- If you cannot insert a disc completely or if after you insert a disc the disc does not play, check that the label side of the disc is up. Press **CD EJECT** to eject the disc, and check the disc for damage before inserting the disc again.
- If the built-in CD player does not operate properly, an error message such as **ERROR-11** may be displayed. Refer to *Understanding built-in CD player error messages* on page 17. ■

Playing tracks in a random order

Random play lets you play back tracks on the CD in a random order.

1 Press 4 to turn random play on.

RDM appears in the display. Tracks will play in a random order.

2 Press 4 to turn random play off.

Tracks will continue to play in order. ■

Repeating play

Repeat play lets you hear the same track over again.

1 Press 5 to turn repeat play on.

RPT appears in the display. The track currently playing will play and then repeat.


Built-in CD Player

2 Press 5 to turn repeat play off.

The track currently playing will continue to play and then play the next track.



Note

If you perform track search or fast forward/reverse, repeat play is automatically cancelled. 


Pausing CD playback

Pause lets you temporarily stop playback of the CD.

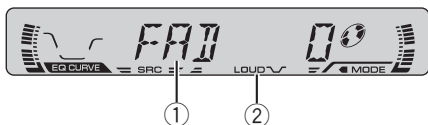
1 Press 6 to turn pause on.

PAUSE appears in the display. Play of the current track pauses.

2 Press 6 to turn pause off.

Play will resume at the same point that you turned pause on. 

Introduction of audio adjustments



① Audio display

Shows the audio adjustments status.

② LOUD indicator

Appears in the display when loudness is turned on.


● Press **AUDIO** to display the audio function names.

Press **AUDIO** repeatedly to switch between the following audio functions:

FAD (balance adjustment)—**EQ-L** (equalizer)—**LOUD** (loudness)—**FIE** (front image enhancer)—**SLA** (source level adjustment)

- When selecting the FM tuner as the source, you cannot switch to **SLA**.
- To return to the display of each source, press **BAND**.

Note

If you do not operate the audio function within about 30 seconds, the display is automatically returned to the source display. 

Using balance adjustment

You can select a fader/balance setting that provides an ideal listening environment in all occupied seats.

1 Press **AUDIO** to select **FAD**.

Press **AUDIO** until **FAD** appears in the display.

- If the balance setting has been previously adjusted, **BAL** will be displayed.


2 Press **▲** or **▼** to adjust front/rear speaker balance.

Each press of **▲** or **▼** moves the front/rear speaker balance towards the front or the rear. **FAD F15 – FAD R15** is displayed as the front/rear speaker balance moves from front to rear.

- **FAD 0** is the proper setting when only two speakers are used.

3 Press **◀** or **▶** to adjust left/right speaker balance.

When you press **◀** or **▶**, **BAL 0** is displayed. Each press of **◀** or **▶** moves the left/right speaker balance towards the left or the right.

BAL L9 – BAL R9 is displayed as the left/right speaker balance moves from left to right. 

Using the equalizer

The equalizer lets you adjust the equalization to match car interior acoustic characteristics as desired.

Recalling equalizer curves

There are six stored equalizer curves which you can easily recall at any time. Here is a list of the equalizer curves:

Display	Equalizer curve
SPR-BASS	Super bass
POWERFUL	Powerful
NATURAL	Natural
VOCAL	Vocal
CUSTOM	Custom
EQ FLAT	Flat

Audio Adjustments

- **CUSTOM** is an adjusted equalizer curve that you create.
- When **EQ FLAT** is selected no supplement or correction is made to the sound. This is useful to check the effect of the equalizer curves by switching alternatively between **EQ FLAT** and a set equalizer curve.

● Press EQ to select the equalizer.

Press **EQ** repeatedly to switch between the following equalizer:

SPR-BASS—POWERFUL—NATURAL—VOCAL—CUSTOM—EQ FLAT

Adjusting equalizer curves

You can adjust the currently selected equalizer curve setting as desired. Adjusted equalizer curve settings are memorized in **CUSTOM**.

1 Press AUDIO to select the equalizer curve adjustment.

Press **AUDIO** until **EQ-L** appears in the display.

- If the equalizer band has been previously adjusted, the band of that previously selected will be displayed instead of **EQ-L**.

2 Press ◀ or ▶ to select the equalizer band to adjust.

Each press of ◀ or ▶ selects equalizer bands in the following order:

EQ-L (low)—**EQ-M** (mid)—**EQ-H** (high)

3 Press ▲ or ▼ to adjust the level of the equalizer band.

Each press of ▲ or ▼ increases or decreases the level of the equalization band.

+6—**-6** is displayed as the level is increased or decreased.

- You can then select another band and adjust the level.

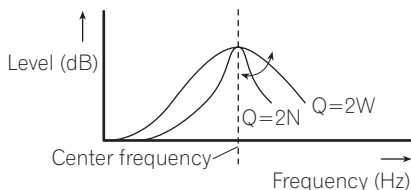


Note

If you make adjustments when a curve other than **CUSTOM** is selected, the newly adjusted curve will replace the previous curve. Then a new curve with **CUSTOM** appears on the display while selecting the equalizer curve.

Fine adjusting equalizer curve

You can adjust the center frequency and the Q factor (curve characteristics) of each currently selected curve band (**EQ-L/EQ-M/EQ-H**).



1 Press AUDIO and hold until frequency and the Q factor (e.g., F- 80 Q 1W) appears in the display.

2 Press AUDIO to select the desired band for adjustment.

Low—Mid—High

3 Press ◀ or ▶ to select the desired frequency.

Press ◀ or ▶ until the desired frequency appears in the display.

Low: **40—80—100—160** (Hz)

Mid: **200—500—1k—2k** (Hz)


High: **3k—8k—10k—12k** (Hz)

4 Press ▲ or ▼ to select the desired Q factor.

Press ▲ or ▼ until the desired Q factor appears in the display.

2N—1N—1W—2W

 **Note**

If you make adjustments when a curve other than **CUSTOM** is selected, the newly adjusted curve will replace the previous curve. Then a new curve with **CUSTOM** appears on the display while selecting the equalizer curve. 

Adjusting loudness

Loudness compensates for deficiencies in the low- and high-sound ranges at low volume.

1 Press AUDIO to select LOUD.

Press **AUDIO** until **LOUD** appears in the display.

2 Press ▲ to turn loudness on.

LOUD indicator is displayed.


- To turn loudness off, press ▼.

3 Press ◀ or ▶ to select a desired level.

Each press of ◀ or ▶ selects level in the following order:

LOW (low)—**MID** (mid)—**HI** (high)

 **Note**

You can also turn loudness on or off by pressing **LOUDNESS**. 

Front image enhancer (F.I.E.)

The F.I.E. (Front Image Enhancer) function is a simple method of enhancing front imaging by cutting mid- and high-range frequency output from the rear speakers, limiting their output to low-range frequencies. You can select the frequency you want to cut.

 **Precaution**

When the F.I.E. function is deactivated, the rear speakers output sound of all frequencies, not just bass sounds. Reduce the volume before disengaging F.I.E. to prevent a sudden increase in volume.

1 Press AUDIO to select FIE.

Press **AUDIO** until **FIE** appears in the display.

2 Press ▲ to turn F.I.E. on.


- To turn F.I.E. off, press ▼.

3 Press ◀ or ▶ to select a desired frequency.

Each press of ◀ or ▶ selects frequency in the following order:

100—160—250 (Hz)

 **Notes**

- After turning the F.I.E. function on, use the balance adjustment (refer to page 12) and adjust front and rear speaker volume levels until they are balanced.
- Turn the F.I.E. function off when using a 2-speaker system. 

Adjusting source levels

SLA (source level adjustment) lets you adjust the volume level of each source to prevent radical changes in volume when switching between sources.

- Settings are based on the volume level of the FM tuner, which remains unchanged.

1 Compare the FM tuner volume level with the level of the source you wish to adjust (e.g., built-in CD player).

Audio Adjustments

2 Press AUDIO to select SLA.

Press **AUDIO** until **SLA** appears in the display.


3 Press ▲ or ▼ to adjust the source volume.

Each press of ▲ or ▼ increases or decreases the source volume.

SLA +4 – **SLA –4** is displayed as the source volume is increased or decreased.



Notes

- Since the FM tuner volume is the control, it is not possible to apply source level adjustments to the FM tuner.
- The AM tuner volume level can also be adjusted with source level adjustments. 

Setting the clock

Use these instructions to set the clock.

1 Press SOURCE and hold until the unit turns off.

2 Press AUDIO repeatedly until clock appears in the display.

3 Press ◀ or ▶ to select the segment of the clock display you wish to set.

Pressing ◀ or ▶ will select one segment of the clock display:

Hour—Minute

As you select segments of the clock display the segment selected will blink.



4 Press ▲ or ▼ to set the clock.

Pressing ▲ will increase the selected hour or minute. Pressing ▼ will decrease the selected hour or minute.

- To cancel clock settings, press **BAND**.
- You can also cancel clock settings by holding down **AUDIO** until the unit turns off.

Turning the clock display on or off

You can turn the clock display on or off.

● **Press CLOCK to turn the clock display on or off.**

Each press of **CLOCK** turns the clock display on or off.

- The clock display disappears temporarily when you perform other operations, but the clock display appears again after 20 seconds.

Additional Information

Understanding built-in CD player error messages

When problems occur during CD play an error message may appear on the display. If an error message appears on the display refer to the table below to see what the problem is and the suggested method of correcting the problem. If the error cannot be corrected, contact your dealer or your nearest Pioneer Service Center.

Message	Cause	Action
ERROR-11, 12, 17, 30	Dirty disc	Clean disc.
ERROR-11, 12, 17, 30	Scratched disc	Replace disc.
ERROR-10, 11, 12, 17, 30, A0	Electrical or mechanical	Turn the ignition ON and OFF, or switch to a different source, then back to the CD player.
ERROR-44	All tracks are skip tracks	Replace disc.

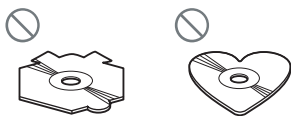


CD player and care

- Use only CDs that have the Compact Disc Digital Audio mark as show below.



- Use only normal, round CDs. If you insert irregular, non-round, shaped CDs they may jam in the CD player or not play properly.




- Check all CDs for cracks, scratches or warped discs before playing. CDs that have

cracks, scratches or are warped may not play properly. Do not use such discs.

- Avoid touching the recorded (non-printed side) surface when handling the disc.
- Store discs in their cases when not in use.
- Keep discs out of direct sunlight and do not expose the discs to high temperatures.
- Do not attach labels, write on or apply chemicals to the surface of the discs.
- To clean dirt from a CD, wipe the disc with a soft cloth outward from the center of the disc.



- If the heater is used in cold weather, moisture may form on components inside the CD player. Condensation may cause the CD player to not operate properly. If you think that condensation is a problem turn off the CD player for an hour or so to allow the CD player to dry out and wipe any damp discs with a soft cloth to remove the moisture.
- Road shocks may interrupt CD playback. 

CD-R/CD-RW discs

- CD-R (CD-Recordable)/CD-RW (CD-Rewritable) discs recorded on CD-R/CD-RW units other than a music CD recorder may not play properly on this CD player.
- Music CD-R/CD-RW discs, even recorded on a music CD recorder, may not play properly on this CD player due to differing disc characteristics, scratches or dirt on the disc. Dirt or condensation on the lens inside this unit may also prevent playback.

Additional Information

- This unit conforms to the track skip function of the CD-R/CD-RW disc. The tracks containing the track skip information are skipped automatically.
- If you insert a CD-RW disc into this unit, time to playback will be longer than when you insert a conventional CD or CD-R disc.
- Read the precautions with CD-R/CD-RW discs before using them.

Additional Information

Specifications

General

Power source	14.4 V DC (10.8 – 15.1 V allowable)
Grounding system	Negative type
Max. current consumption	10.0 A
Dimensions (W × H × D):	
DIN	
Chassis	178 × 50 × 157 mm (7 × 2 × 6-1/8 in.)
Nose	188 × 58 × 19 mm (7-3/8 × 2-1/4 × 3/4 in.)
D	
Chassis	178 × 50 × 162 mm (7 × 2 × 6-3/8 in.)
Nose	170 × 48 × 14 mm (6-3/4 × 1-7/8 × 1/2 in.)
Weight	1.3 kg (2.9 lbs)

Audio

Continuous power output is 22 W per channel minimum into 4 ohms, both channels driven 50 to 15,000 Hz with no more than 5% THD.	
Maximum power output	50 W × 4
Load impedance	4 Ω (4 – 8 Ω allowable)
Preout max output level/output impedance	2.2 V/1 kΩ
Equalizer (3-Band Parametric Equalizer):	
Low	
Frequency	40/80/100/160 Hz
Q Factor	0.35/0.59/0.95/1.15 (+6 dB when boosted)
Gain	±12dB
Mid	
Frequency	200/500/1k/2k Hz
Q Factor	0.35/0.59/0.95/1.15 (+6 dB when boosted)
Gain	±12dB
High	
Frequency	3.15k/8k/10k/12.5k Hz
Q Factor	0.35/0.59/0.95/1.15 (+6 dB when boosted)
Gain	±12dB
Loudness contour	
Low	+3.5 dB (100 Hz), +3 dB (10 kHz)
Mid	+10 dB (100 Hz), +6.5 dB (10 kHz)

High	+11 dB (100 Hz), +11 dB (10 kHz) (volume: –30 dB)
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CD player

System	Compact disc audio system
Usable discs	Compact disc
Signal format:	
Sampling frequency	44.1 kHz
Number of quantization bits	16; linear
Frequency characteristics ...	5 – 20,000 Hz (±1 dB)
Signal-to-noise ratio	94 dB (1 kHz) (IHF-A network)
Dynamic range	92 dB (1 kHz)
Number of channels	2 (stereo)

FM tuner

Frequency range	87.9 – 107.9 MHz
Usable sensitivity	8 dBf (0.7 μV/75 Ω, mono, S/N: 30 dB)
50 dB quieting sensitivity	10 dBf (0.9 μV/75 Ω, mono)
Signal-to-noise ratio	75 dB (IHF-A network)
Distortion	0.3 % (at 65 dBf, 1 kHz, stereo)
	0.1 % (at 65 dBf, 1 kHz, mono)
Frequency response	30 – 15,000 Hz (±3 dB)
Stereo separation	45 dB (at 65 dBf, 1 kHz)
Selectivity	80 dB (±200 kHz)
Three-signal intermodulation (desired signal level)	30 dBf (two undesired signal level: 100 dBf)

AM tuner

Frequency range	530 – 1,710 kHz (10 kHz)
Usable sensitivity	18 μV (S/N: 20 dB)
Signal-to-noise ratio	65 dB (IHF-A network)



Note

Specifications and the design are subject to possible modifications without notice due to improvements. ■

*Register your product at
Enregistrez votre produit au
Registre su producto en*

<http://www.pioneerelectronics.com>

*See "Product registration" page
Voir la page "Enregistrement du produit"
Consulte la página sobre "Registro del producto"*

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<CRD3664-A/U> UC

<KSNZX/02H00000>

DEH-1500

DEH-15

This product conforms to CEMA cord colors.
Le code de couleur des câbles utilisé pour ce produit est conforme à CEMA.
Los colores de los cables este producto se conforman con el código de colores CEMA.

Connecting the Units

Note:

- This unit is for vehicles with a 12-volt battery and negative grounding. Before installing it in a recreational vehicle, truck or bus, check the battery voltage.
- To avoid shorts in the electrical system, be sure to disconnect the \ominus battery cable before beginning installation.
- Refer to the owner's manual for details on connecting the power amp and other units, then make connections correctly.
- Secure the wiring with cable clamps or adhesive tape. To protect the wiring, wrap adhesive tape around them where they lie against metal parts.
- Route and secure all wiring so it cannot touch any moving parts, such as the gear shift, handbrake and seat rails. Do not route wiring in places that get hot, such as near the heater outlet. If the insulation of the wiring melts or gets torn, there is a danger of the wiring short-circuiting to the vehicle body.
- Don't pass the yellow lead through a hole into the engine compartment to connect to the battery. This will damage the lead insulation and cause a very dangerous short.
- Do not shorten any leads. If you do, the protection circuit may fail to work when it should.
- Never feed power to other equipment by cutting the insulation of the power supply lead of the unit and tapping into the lead. The current capacity of the lead will be exceeded, causing overheating.
- When replacing fuse, be sure to use only fuse of the rating prescribed on this unit.
- Since a unique BPTL circuit is employed, never wire so the speaker leads are directly grounded or the left and right \ominus speaker leads are common. If you ground the products together and the ground becomes detached, there is a risk of damage to the products or fire.
- The black lead is ground. Please ground this lead separately from the ground of high-current products such as power amps. If you ground the products together and the ground becomes detached, there is a risk of damage to the products or fire.
- Speakers connected to this unit must be high-power types with minimum rating of 50 W and impedance of 4 to 8 ohms. Connecting speakers with output and/or impedance values other than those noted here may result in the speakers catching fire, emitting smoke, or becoming damaged.

- When this product's source is switched ON, a control signal is output through the blue/white lead. Connect to an external power amp's system remote control or the car's Auto-antenna relay control terminal (max. 300 mA 12 V DC). If the car features a glass antenna, connect to the antenna booster power supply terminal.
- When an external power amp is being used with this system, be sure not to connect the blue/white lead to the amp's power terminal. Likewise, do not connect the blue/white lead to the power terminal of the auto-antenna. Such connection could cause excessive current drain and malfunction.
- To avoid short-circuiting, cover the disconnected lead with insulating tape. Especially, insulate the unused speaker leads without fail. There is a possibility of short-circuiting if the leads are not insulated.
- If this unit is installed in a vehicle that does not have an ACC (accessory) position on the ignition switch, the red lead of the unit should be connected to a terminal coupled with ignition switch ON/OFF operations. If this is not done, the vehicle battery may be drained when you are away from the vehicle for several hours. (Fig. 1)

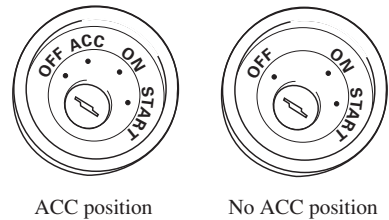


Fig. 1

- Cords for this product and those for other products may be different colors even if they have the same function. When connecting this product to another product, refer to the supplied Installation manuals of both products and connect cords that have the same function.

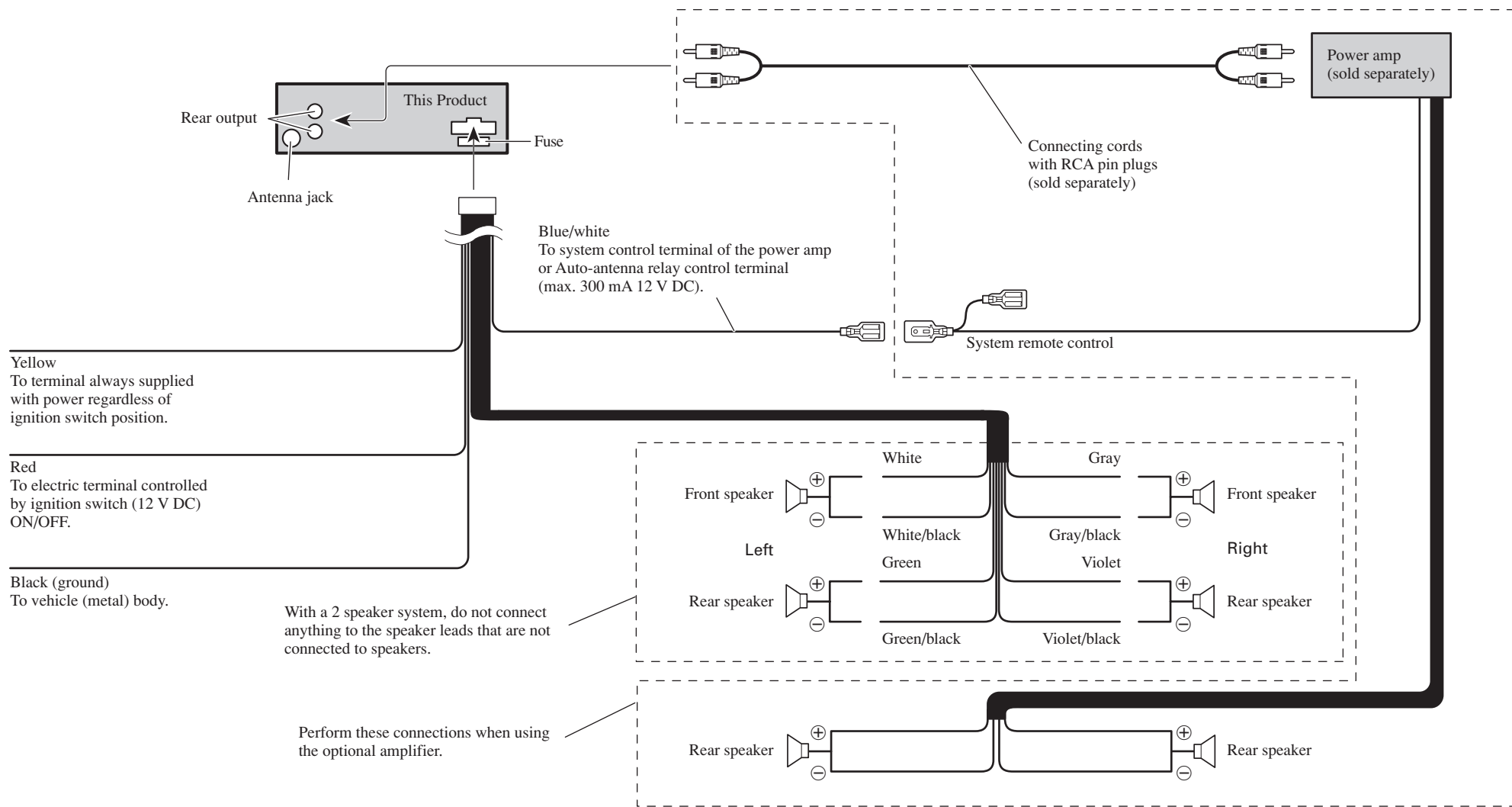


Fig. 2

Installation

Note:

- Before finally installing the unit, connect the wiring temporarily, making sure it is all connected up properly, and the unit and the system work properly.
 - Use only the parts included with the unit to ensure proper installation. The use of unauthorized parts can cause malfunctions.
 - Consult with your nearest dealer if installation requires the drilling of holes or other modifications of the vehicle.
 - Install the unit where it does not get in the driver's way and cannot injure the passenger if there is a sudden stop, like an emergency stop.
 - The semiconductor laser will be damaged if it overheats, so don't install the unit anywhere hot — for instance, near a heater outlet.
- If installation angle exceeds 60° from horizontal, the unit might not give its optimum performance. (Fig. 3)

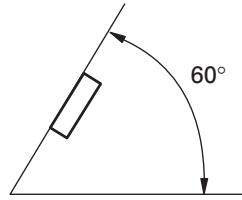


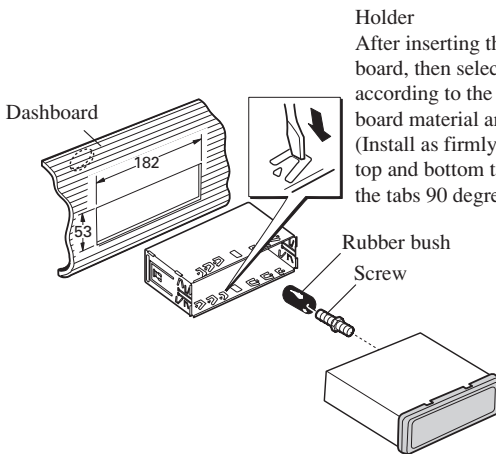
Fig. 3

DIN Front/Rear-mount

This unit can be properly installed either from “Front” (conventional DIN Front-mount) or “Rear” (DIN Rear-mount installation, utilizing threaded screw holes at the sides of unit chassis). For details, refer to the following illustrated installation methods.

DIN Front-mount

Installation with the rubber bush (Fig. 4)



Holder

After inserting the holder into the dashboard, then select the appropriate tabs according to the thickness of the dashboard material and bend them.

(Install as firmly as possible using the top and bottom tabs. To secure, bend the tabs 90 degrees.)

Fig. 4

Removing the Unit (Fig. 5) (Fig. 6)

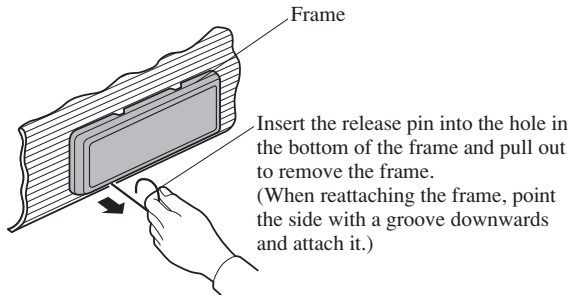


Fig. 5

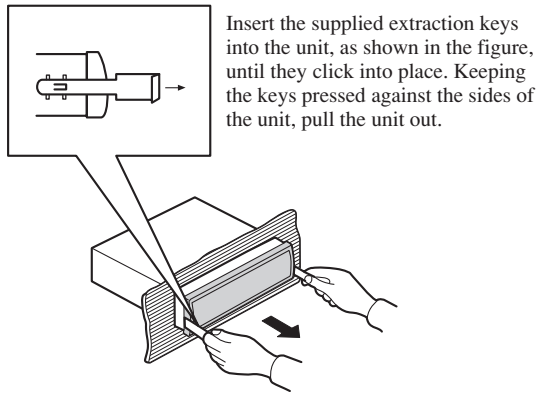


Fig. 6

DIN Rear-mount

Installation using the screw holes on the side of the unit

1. Remove the frame. (Fig. 7)

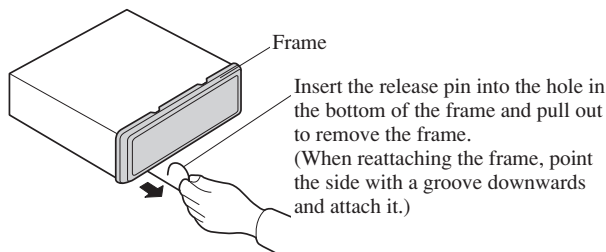


Fig. 7

2. Fastening the unit to the factory radio mounting bracket. (Fig. 8) (Fig. 9)

Select a position where the screw holes of the bracket and the screw holes of the head unit become aligned (are fitted), and tighten the screws at 2 places on each side. Use either truss screws (5 × 8 mm) or flush surface screws (5 × 9 mm), depending on the shape of the screw holes in the bracket.

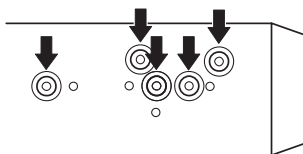


Fig. 8

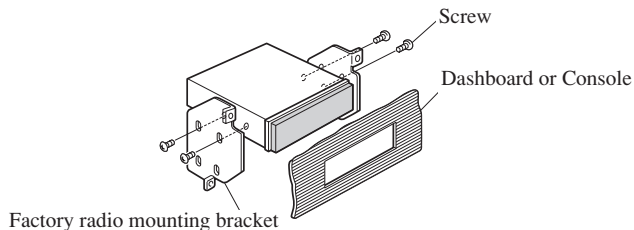


Fig. 9

About the fixing screws for the front panel

If you do not operate the Detaching and Replacing the Front Panel Function, use the supplied fixing screws and fix the front panel to this unit.

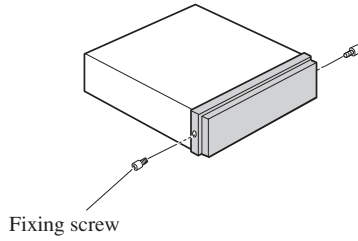


Fig. 10



PIONEER ELECTRONICS (USA) INC. - PIONEER ELECTRONICS OF CANADA, INC.
(PA) (POC)

LIMITED WARRANTY

WARRANTY VALID ONLY IN COUNTRY OF PRODUCT PURCHASE

WARRANTY PERIOD

For the period specified below from date of original retail purchase (the warranty period) from an authorized Pioneer dealer, Pioneer Electronics (USA) Inc. (PA), and Pioneer Electronics Of Canada, Inc. (POC), warrant that products distributed by PA in the U.S.A., and by POC in Canada that fail to function properly under normal use due to a manufacturing defect when installed and operated according to the owner's manual enclosed with the unit will be repaired or replaced with a unit of comparable value, at the option of PA or POC, without charge to you for parts or actual repair work. Parts supplied under this warranty may be new or rebuilt at the option of PA or POC.

The warranty period for retail customers who rent the product commences upon the date product is first put into use (a) during the rental period or (b) retail sale, whichever occurs first.

The warranty does not cover any product which is used in any trade or business, or in an industrial or commercial application.

WARRANTY PERIOD
PARTS LABOR

PRODUCT

Car Stereo Products **ONE YEAR ONE YEAR**

This warranty covers the product during the warranty period whether in the possession of the original owner or any subsequent owner. In the event service is required, the product must be delivered within the warranty period, transportation prepaid, from within the country of purchase as explained in this document. You will be responsible for removal and installation of the product. PA or POC, as appropriate, will pay for the cost of returning the repaired or replacement product to you within the country of purchase.

WHAT'S NOT COVERED

This warranty does not apply to any speaker that has been subjected to power in excess of its published power rating.

This warranty does not cover the cabinet or any appearance item, user attached antennas, any damage to recordings or recording tapes or discs, any damage to the product resulting from alterations, modifications not authorized in writing by PA or POC, accident, misuse or abuse, damage due to lightning or to power surges, subsequent damage from leaking, damaged or inoperative batteries or the use of batteries not conforming to those specified in the owner's manual

This warranty does not cover the cost of parts or labor which would be otherwise provided without charge under this warranty, obtained from any source other than a PA or POC Authorized Service Company or other designated location. This warranty does not cover defects or damage caused by the use of unauthorized parts or labor, or from improper maintenance.

ALTERED, DEFACED OR REMOVED SERIAL NUMBERS VOID THIS WARRANTY.

YOUR RIGHTS

PA and POC exclude any obligation on their part for incidental or consequential damages related to the failure of products each distributes to function properly under the conditions set forth above.

IN THE U.S.A. - PA LIMITS ITS OBLIGATIONS UNDER ANY IMPLIED WARRANTIES INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE TO A PERIOD NOT TO EXCEED THE WARRANTY PERIOD. NO WARRANTIES SHALL APPLY AFTER THE WARRANTY PERIOD. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, AND SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY HAVE OTHER RIGHTS WHICH MAY VARY FROM STATE TO STATE

IN CANADA - EXCEPT AS EXPRESSLY PROVIDED HEREIN, THERE ARE NO REPRESENTATIONS, WARRANTIES, OBLIGATIONS OR CONDITIONS, IMPLIED, STATUTORY OR OTHERWISE, APPLICABLE TO THIS PRODUCT

**TO OBTAIN SERVICE
CAR STEREO PRODUCTS (EXCEPT CAR SPEAKERS SOLD IN THE U.S.A. ONLY)**

PA and POC have appointed a number of Authorized Service Companies throughout the U.S.A. and Canada should your product ever require service. To receive warranty service you will need to present your sales receipt or, if rented, your rental contract showing place and date of original owner's transaction.

Should it become necessary to ship the unit you will need to package the product carefully and send it, transportation prepaid by a traceable, pre-insured method, to an Authorized Service Company. Carefully package the product using adequate padding material to prevent damage in transit. The original container is ideal for this purpose. Include in the package your name, address, telephone number where you can be reached during business hours, a copy of your sales receipt and a detailed description of the problem.

**TO OBTAIN SERVICE
CAR SPEAKERS SOLD IN THE U.S.A. ONLY**

Should your car speaker require service, return defective car speaker to your retail dealer for exchange. To receive warranty service you will need to present your sales receipt showing place and date of original owner's retail purchase. If, for any reason, you cannot exchange the speakers at the selling dealer, call the Customer Service Department as given below.

- ADDITIONAL INFORMATION -

IN THE U.S.A.
For additional information on this warranty, please call or write:

CUSTOMER SERVICE DEPARTMENT
PIONEER ELECTRONICS SERVICE, INC.
P.O. BOX 1760
LONG BEACH, CALIFORNIA 90801
1-800-421-1404

IN THE U.S.A. DO NOT RETURN ANY PRODUCT TO THE ABOVE ADDRESS. IT IS NOT A SERVICE LOCATION.

IN CANADA
Please contact a Pioneer authorized Dealer to find the nearest Pioneer authorized service location. For additional information on this warranty, please call or write:

CUSTOMER SERVICE DEPARTMENT
PIONEER ELECTRONICS OF CANADA, INC.
300 ALLSTATE PARKWAY
MARKHAM, ON L3R 0P2
(905) 479-4411

IN THE U.S.A.

**FOR PRODUCT INFORMATION, TO PURCHASE
REPLACEMENT PARTS OR TO LOCATE
AN AUTHORIZED SERVICE COMPANY
CALL: 1-800-421-1404**

RECORD THE PLACE AND DATE OF PURCHASE FOR FUTURE REFERENCE

Model No _____ Serial No. _____ Purchase Date _____
Purchased From _____

KEEP THIS INFORMATION AND YOUR SALES RECEIPT IN A SAFE PLACE